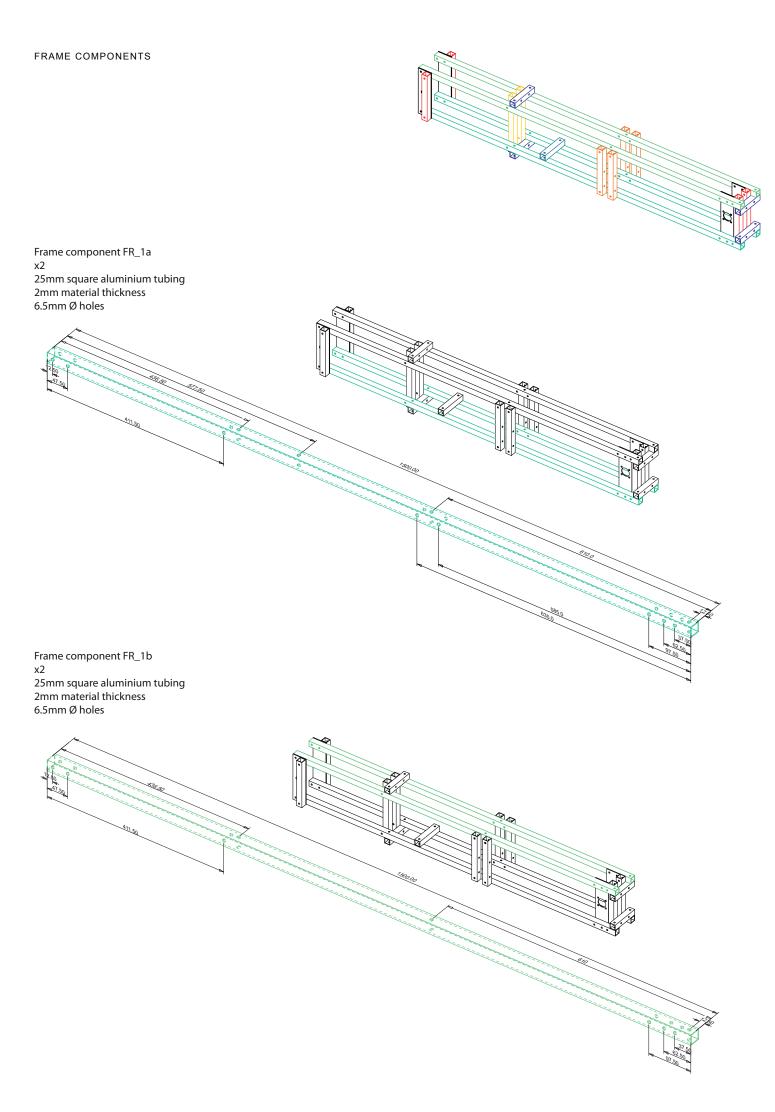
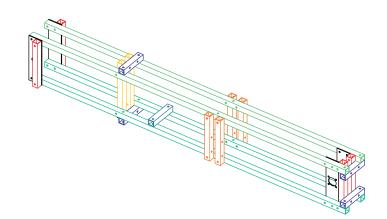
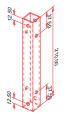


XYZ SPACEFRAME VEHICLES enables persons to build their own vehicles for transporting persons or goods. XYZ SPACEFRAME VEHICLES is based on a low cost, light weight, highly durable construction requiring only simple hand-held, non specialized tools to produce. With XYZ SPACEFRAME VEHICLES, N55 offers a new alternative to mass produced traditional cycle products, often made from low grade materials and not made to last or being repaired. The designs of XYZ SPACEFRAME VEHICLES including any new construction principle used in the system and the XYZ construction and connection principle are Open Source provided under Creative Commons CC BY-NC-SA 3.0 (Noncommercial — You may not use this work for commercial purposes. Any use of the works must include proper credits to N55 and collaborator Till Wolfer and a link to www.n55.dk). Available construction plans can be downloaded at www.n55.dk. You can also purchase one of our XYZ CARGO models at www.xyzcargo.com and support the further development of XYZ SPACEFRAME VEHICLES. To test ride a XYZ CARGO or to talk to us, please drop by at our spaces in Kopenhagen (DK) or Gaengeviertel/Hamburg (GER). XYZ SPACEFRAME VEHICLES are developed by N55 in collaboration with Till Wolfer.

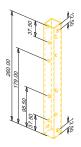




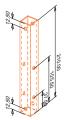
Frame component FR_2a x4 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes

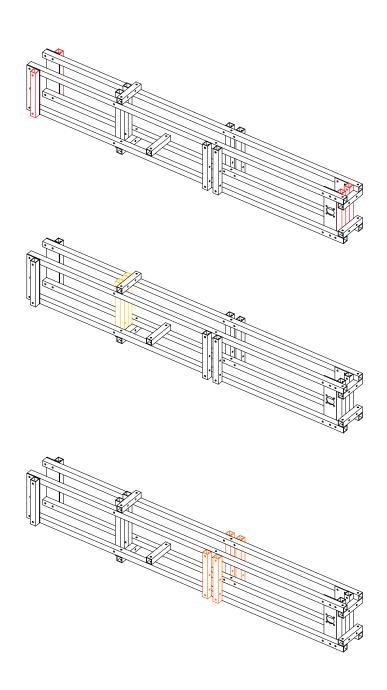


Frame component FR_2b x2 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes



Frame component FR_2c x4
25mm square aluminium tubing 2mm material thickness
6.5mm Ø holes





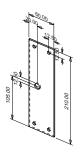
Frame component FR_3a x4 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes



Frame component FR_3b x1 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes

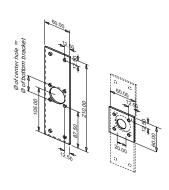


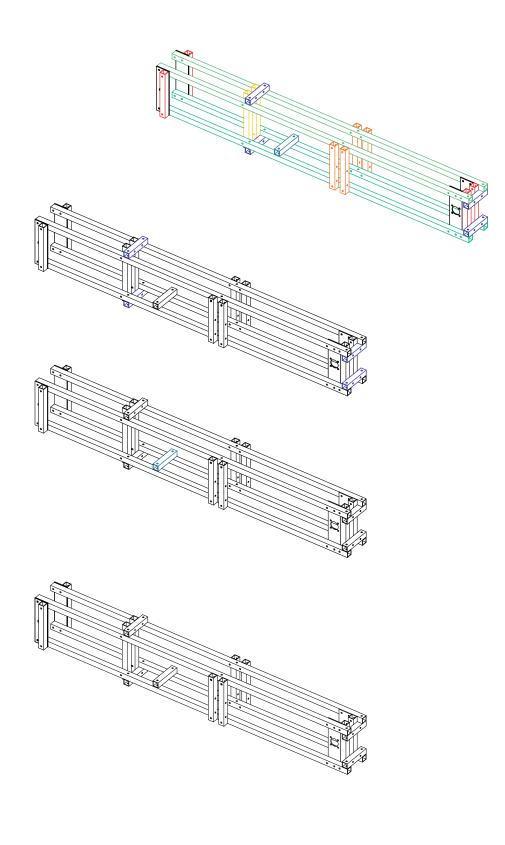
Frame component FR_4a x2 3mm aluminium plate rear wheel cradle 6.5mm Ø holes 12.50 Ø rear wheel hub screw

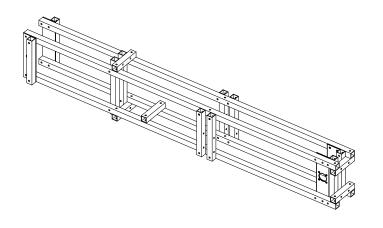


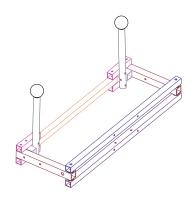
Frame component FR_4b x2 Frame component FR_4c x2 (mounted on the outside of FR_4b) 3x60mm aluminium plate 6.5mm Ø holes

NOTE: The diameter of the big center hole has to equal exactly the size of the outer diameter of the bottom bracket's end caps:

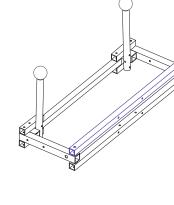




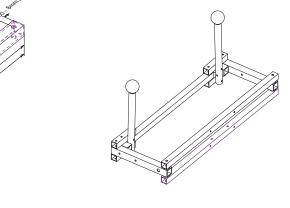


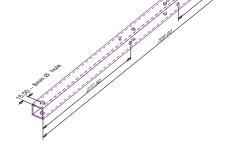


Steering bridge component ST_1a x1
25mm square aluminium tubing 2mm material thickness
6.5mm and two 8mm Ø holes

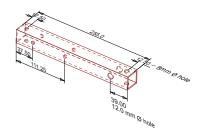


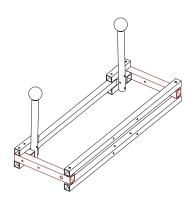
Steering bridge component ST_1b x1
25mm square aluminium tubing 2mm material thickness
6.5mm and two 8mm Ø holes



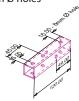


Steering bridge component ST_2 x2
30mm square aluminium tubing
3mm material thickness
6.5mm, 8mm and 12mm Ø hole





Steering bridge component ST_3 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes



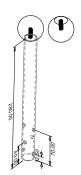
Steering bridge component ST_4 25mm square aluminium tubing 2mm material thickness 6.5mm and 8mm Ø holes



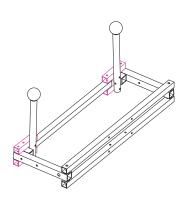
Steering bridge component ST_5 3x30x30mm square aluminium tubing 2mm material thickness 6.5mm Ø holes

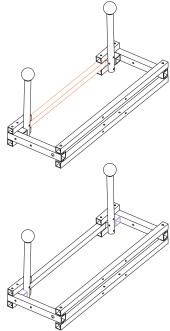


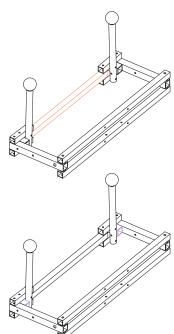
Steering bridge component ST_6 20mm diameter round aluminium tubing 2mm material thickness 6.5mm Ø holes Frame component ST_6 50mm diameter nylon sphere w. thread

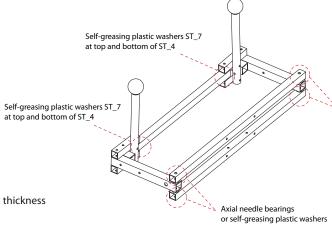


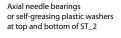
Steering bridge component ST_7 ca. 23.50 mm Ø plastic washer (M8-hole), 5mm thickness or Axial needle bearings with M8-hole

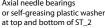




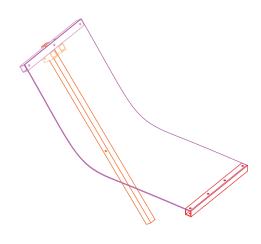




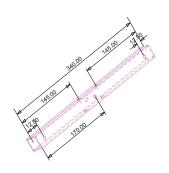


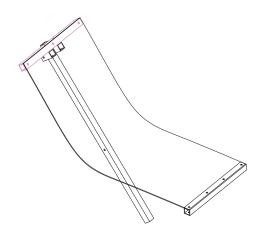




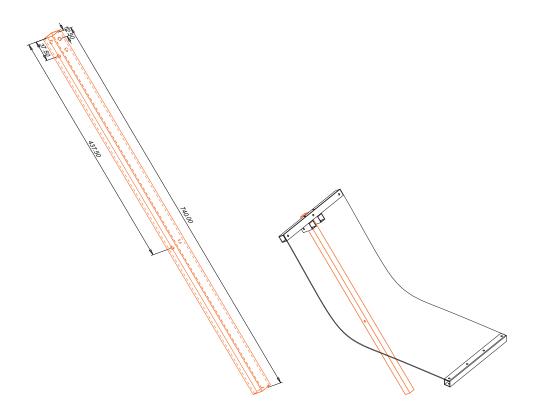


Seat component SE_1 x1 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes





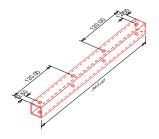
Seat component SE_2 x1 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes

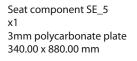


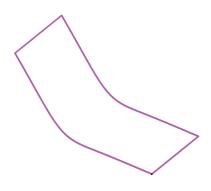
Seat component SE_3 x2 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes



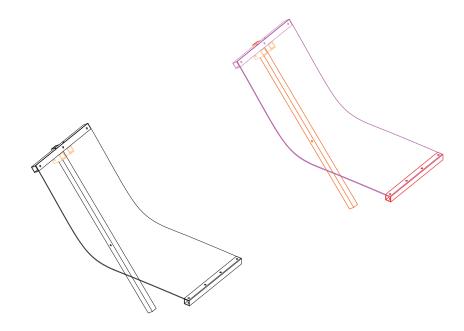
Seat component SE_4 x1 25mm square aluminium tubing 2mm material thickness 6.5mm Ø holes

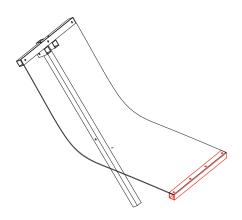


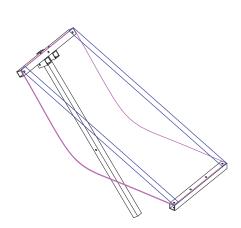


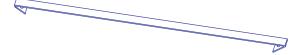


Seat component SE_6 x2 25mm nylon ribbon black total length ca. 820mm









BACK WHEEL 26"x1.75

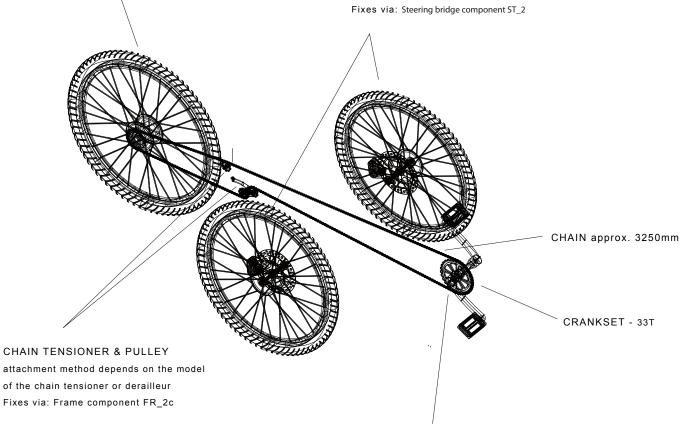
prefarably:

Shimano Nexus 8 gear internal hub with GripShift, including rollerbrake system and brake lever, wheel: reinforced spokes 2.34mm, double wall rim and punctureproof tires

Fixes via: Frame component FR_4a

FRONT WHEELS 24"x1.75

equipped with a reinforced axle (M12, 8.8) for one-sided attachment, prefarably: mirrored drum brakes or disc brakes and a double break lever for synchronous braking of both front wheels



BOTTOM BRACKET

length min. 127.5mm

casing: full steel (no aluminum or plastics)

Fixes via: Frame component FR_4b

MISCELLANEOUS:

- Brake cables, socks and cable caps: length depending on realized layout
- Gear cables, socks and cable caps: length depending on realized layout
- FlexiPipe: 2 pieces (optional)
- 1x 26" and 2x 24" bicycle tube
- M12 x 160mm axles, strength min. 8.8: 2 pieces, incl. selfsecuring nuts and 4x M12 washers
- Bike light front & rear

BILL OF MATERIALS:

BOLTS & NUTS

M6 SELFLOCKING NUTS, stainless (DIN985) - ca. 150 pieces (TWOSEATER: 200 pieces)
M8 SELFLOCKING NUTS, stainless (DIN985) - ca. 5 pieces (TWOSEATER: identical)
M8 NUTS NORMAL, stainless - ca. 5 pieces (TWOSEATER: identical)

M6 and M8 BOLTS with Hexagon head, stainless, (DIN931):

6mm x 140 mm - ca. 2 pieces (TWOSEATER: 3 pieces) 6mm x 90 mm - ca. 15 pieces (TWOSEATER: 20 pieces)

6mm x 90 mm - ca. 5 pieces in DIN 933 (full thread) (TWOSEATER: identical)

6mm x 60 mm - ca. 60 pieces (TWOSEATER: 120 pieces) 6mm x 65 mm - ca. 10 pieces (TWOSEATER: identical) 6mm x 40 mm - ca. 25 pieces (TWOSEATER: identical) 8mm x 120mm, 2 pieces (TWOSEATER: identical) 8mm x 100mm, 2 pieces (TWOSEATER: identical)

M6 WASHERS - ca. 300 pieces (TWOSEATER: 400 pieces)
M8 WASHERS - ca. 10 pieces (TWOSEATER: identical)

ALUMINUM

2x25x25mm ALUMINIUM SQUARE TUBE: 15m (TWOSEATER: 34m) 3x30x30mm ALUMINIUM SQUARE TUBE: 1m (TWOSEATER: 2.5m) 4x60mm ALUMINIUM FLAT: 1m (TWOSEATER: identical) 2x22mm ALUMINUM ROUND TUBE Ø22mm: 1m

PLASTICS

3x880x340mm POLYCARBONATE SHEET (TWOSEATER: 2 times)
ENDCAPS (PE), black, for 2x25x25 tubing: ca. 70 pieces (TWOSEATER: 100 pieces)
ENDCAPS (PE), black, for 3x30x30 tubing: ca. 10 pieces (TWOSEATER: 15 pieces)
POM or PE black, round Ø 25mm: ca. 0,3m (TWOSEATER: 0,5m)
POM or PE black, square 21x21mm: ca. 0,6m (TWOSEATER: 0,5m)
POM or PE WASHERS M8: ca. 20 pieces (TWOSEATER: identical)

MISCELLANEOUS

AXIAL NEEDLE BEARINGS M8: 4 pieces (TWOSEATER: identical)

NYLON SPHERE w. screwthread, black, diameter 50mm: 2 pieces (TWOSEATER: identical)

NYLON RIBBON, black, width 25mm, for seat side support: 1,7m (TWOSEATER: 3,5m)

All amounts include some spare pieces.

Nonetheless: please consider ordering extra amounts.

Mistakes during production of parts as well as

new developments will need more bolts & tubing.



N55 art etc.

www.n55.dk www.xyzcargo.com

Denmark:

N55 / Ion Sorvin Burmeistergade 10 Boutikken 1429 Kobenhavn mail: n55@n55.dk

Germany:

N55 / Till Wolfer Valentinskamp 28a 20355 Hamburg

phone: +4917628096379

mail: till@n55.dk